

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 0275M-579/PC	FOR FURTHER ACTION see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.	
International application No. PCT/US 02/ 10964	International filing date (day/month/year) 09/04/2002	(Earliest) Priority Date (day/month/year) 17/04/2001
Applicant EMHART LLC		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 03 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

b. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international search was carried out on the basis of the sequence listing :

☐ contained in the international application in written form.

☐ filed together with the international application in computer readable form.

☐ furnished subsequently to this Authority in written form.

☐ furnished subsequently to this Authority in computer readable form.

☐ the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.

☐ the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished

2. ☐ **Certain claims were found unsearchable** (See Box I).

3. ☐ **Unity of invention is lacking** (see Box II).

4. With regard to the **title**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the **drawings** to be published with the abstract is Figure No. 1

☐ None of the figures.

☐ as suggested by the applicant.

☒ because the applicant failed to suggest a figure.

☐ because this figure better characterizes the invention.

INTERNATIONAL SEARCH REPORT

National Application No
PCT/US 02/10964

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 B21J15/32 B21J15/02

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 B21J B23P

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5 964 393 A (BLACKET STUART EDMUND ET AL) 12 October 1999 (1999-10-12) column 3, line 23 -column 4, line 25 column 5, line 36 -column 6, line 12; figures 1,2 column 7, line 25 -column 8, line 4; figures 11-13 ---	1
A	WO 00 07751 A (BLACKET STUART EDMUND ;CRAYTHORN RUPERT ANDREW (AU); FUHRMEISTER R) 17 February 2000 (2000-02-17) page 32, line 19 -page 35, line 9; figures 1,33-36D page 40, line 6 -page 42, line 9; figures 46-53 --- -/--	1

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *G* document member of the same patent family

Date of the actual completion of the international search

29 July 2002

Date of mailing of the international search report

05/08/2002

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INTERNATIONAL SEARCH REPORT

International Application No
PCT/US 02/10964

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	DE 201 00 628 U (EMHART INC) 22 March 2001 (2001-03-22) page 5, line 19 -page 6, line 6; figures 1,4 -----	1

INTERNATIONAL SEARCH REPORT

Information on patent family members

ational Application No

PCT/US 02/10964

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 5964393	A	12-10-1999	DE 4423165 A1	11-01-1996
			AU 699299 B2	26-11-1998
			AU 2980995 A	25-01-1996
			CA 2194145 A1	18-01-1996
			DE 19580742 D2	11-03-1999
			WO 9601161 A1	18-01-1996
			EP 0768927 A1	23-04-1997
			JP 2000516538 T	12-12-2000
WO 0007751	A	17-02-2000	AU 5183599 A	28-02-2000
			BR 9912731 A	27-11-2001
			CN 1320065 T	31-10-2001
			EP 1102650 A1	30-05-2001
			WO 0007751 A1	17-02-2000
DE 20100628	U	22-03-2001	DE 20100628 U1	22-03-2001
			DE 20107430 U1	12-07-2001
			US 2002092158 A1	18-07-2002